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OM protein - protein search, using sw model

Run on: February 16, 2005, 16:26:39 ; Search time 135.466 Seconds
(without alignments)
2235.960 Million cell updates/sec

Title: US-10-003-356-8

Perfect score: 4904

Sequence: 1 MFERRKEQDEGPIHEFLAF.....TVSTVLDRLVLYMCPKLQ 927

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1376875 seqs, 326749119 residues

Total number of hits satisfying chosen parameters: 1376875

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA.*

- 1: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep.*
- 6: /cgn2_6/ptodata/2/pubpaa/PCTUS_PUBCOMB.pep.*
- 7: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep.*
- 8: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB.pep.*
- 10: /cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB.pep.*
- 12: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep.*
- 13: /cgn2_6/ptodata/2/pubpaa/US10_PUBCOMB.pep.*
- 14: /cgn2_6/ptodata/2/pubpaa/US10_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/2/pubpaa/US10_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/2/pubpaa/US10_PUBCOMB.pep.*
- 17: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep.*
- 18: /cgn2_6/ptodata/2/pubpaa/US11_NEW_PUB.pep.*
- 19: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep.*
- 20: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description |
|------------|--------|-------------|--------|----------------------|--------------------|
| 1 | 4904 | 100.0 | 927 | 13 US-10-003-356-8 | Sequence 8, Appli |
| 2 | 3962 | 80.8 | 912 | 15 US-10-436-715-84 | Sequence 84, Appl |
| 3 | 2980 | 60.8 | 755 | 15 US-10-292-798-450 | Sequence 450, Appl |
| 4 | 1986 | 40.5 | 380 | 13 US-10-003-356-5 | Sequence 5, Appli |
| 5 | 1749 | 35.7 | 365 | 14 US-10-017-161-510 | Sequence 510, App |
| 6 | 1749 | 35.7 | 365 | 15 US-10-343-650A-52 | Sequence 52, Appl |
| 7 | 1695.5 | 34.6 | 1085 | 14 US-10-159-339-10 | Sequence 10, Appl |
| 8 | 1695.5 | 34.6 | 1085 | 15 US-10-041-615-108 | Sequence 108, Appl |
| 9 | 1695.5 | 34.6 | 1085 | 15 US-10-436-715-21 | Sequence 21, Appl |
| 10 | 1695.5 | 34.6 | 1085 | 15 US-10-436-715-75 | Sequence 75, Appl |
| 11 | 1690.5 | 34.5 | 1079 | 14 US-10-159-339-9 | Sequence 9, Appli |
| 12 | 1690.5 | 34.5 | 1079 | 15 US-10-436-715-24 | Sequence 24, Appl |
| 13 | 1690.5 | 34.5 | 1079 | 15 US-10-436-715-73 | Sequence 73, Appl |

| | | | | | | |
|----|--------|------|------|----|--------------------|-------------------|
| 14 | 1690.5 | 34.5 | 1079 | 15 | US-10-673-888-2 | Sequence 2, Appli |
| 15 | 1688.5 | 34.4 | 1027 | 14 | US-10-125-792-2 | Sequence 2, Appli |
| 16 | 1688.5 | 34.4 | 1027 | 14 | US-10-125-778-2 | Sequence 2, Appli |
| 17 | 1688.5 | 34.4 | 1027 | 14 | US-10-268-051-8 | Sequence 8, Appli |
| 18 | 1688.5 | 34.4 | 1027 | 14 | US-10-125-772-2 | Sequence 2, Appli |
| 19 | 1688.5 | 34.4 | 1027 | 14 | US-10-016-496-2 | Sequence 2, Appli |
| 20 | 1688.5 | 34.4 | 1027 | 15 | US-10-410-885-2 | Sequence 2, Appli |
| 21 | 1687.5 | 34.4 | 1078 | 13 | US-10-002-854-2 | Sequence 2, Appli |
| 22 | 1687.5 | 34.4 | 1078 | 14 | US-10-225-567A-118 | Sequence 118, App |
| 23 | 1687.5 | 34.4 | 1078 | 14 | US-10-159-339-8 | Sequence 8, Appli |
| 24 | 1687.5 | 34.4 | 1078 | 15 | US-10-436-715-22 | Sequence 22, Appl |
| 25 | 1687.5 | 34.4 | 1078 | 15 | US-10-436-715-74 | Sequence 74, Appl |
| 26 | 1687.5 | 34.4 | 1078 | 15 | US-10-416-588-3 | Sequence 3, Appli |
| 27 | 1687.5 | 34.4 | 1078 | 16 | US-10-408-765A-171 | Sequence 171, App |
| 28 | 1685.5 | 34.4 | 1079 | 15 | US-10-436-715-23 | Sequence 23, Appl |
| 29 | 1685.5 | 34.4 | 1079 | 15 | US-10-436-715-72 | Sequence 72, Appl |
| 30 | 1684.5 | 34.3 | 1078 | 9 | US-09-727-205-2 | Sequence 2, Appli |
| 31 | 1673.5 | 34.1 | 1088 | 15 | US-10-673-888-1 | Sequence 1, Appli |
| 32 | 1668.5 | 34.0 | 867 | 15 | US-10-179-373-19 | Sequence 19, Appl |
| 33 | 1668.5 | 34.0 | 867 | 16 | US-10-725-103-19 | Sequence 19, Appl |
| 34 | 1668.5 | 34.0 | 867 | 16 | US-10-725-489-19 | Sequence 19, Appl |
| 35 | 1668.5 | 34.0 | 867 | 16 | US-10-725-080A-19 | Sequence 19, Appl |
| 36 | 1668.5 | 34.0 | 867 | 16 | US-10-725-472A-19 | Sequence 19, Appl |
| 37 | 1660.5 | 33.9 | 1078 | 14 | US-10-125-792-28 | Sequence 28, Appl |
| 38 | 1660.5 | 33.9 | 1078 | 14 | US-10-125-778-28 | Sequence 28, Appl |
| 39 | 1660.5 | 33.9 | 1078 | 14 | US-10-125-772-28 | Sequence 28, Appl |
| 40 | 1660.5 | 33.9 | 1078 | 15 | US-10-125-885-30 | Sequence 30, Appl |
| 41 | 1630.5 | 33.2 | 940 | 15 | US-10-041-615-107 | Sequence 107, App |
| 42 | 1630.5 | 33.2 | 941 | 14 | US-10-125-792-8 | Sequence 8, Appli |
| 43 | 1630.5 | 33.2 | 941 | 14 | US-10-125-778-8 | Sequence 8, Appli |
| 44 | 1630.5 | 33.2 | 941 | 14 | US-10-125-772-8 | Sequence 8, Appli |
| 45 | 1630.5 | 33.2 | 941 | 15 | US-10-410-885-8 | Sequence 8, Appli |

ALIGNMENTS

RESULT 1
US-10-003-356-8
; Sequence 8, Application US/10003356
; Publication No. US20020146418A1
; GENERAL INFORMATION:
; APPLICANT: Holloway, James L.
; TITLE OF INVENTION: Human V2 Vomeronasal Receptor
; FILE REFERENCE: 00-107
; CURRENT APPLICATION NUMBER: US/10/003,356
; CURRENT FILING DATE: 2001-11-15
; PRIOR APPLICATION NUMBER: 60/252,373
; PRIOR FILING DATE: 2000-11-21
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 927
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimeric receptor.
US-10-003-356-8

| | | | | |
|-----------------------|-----------------|---|-----------|-------------|
| Query Match | 100.0% | Score 4904; | DB 13; | Length 927; |
| Best Local Similarity | 100.0% | Pred. No. 0; | | |
| Matches 927; | Conservative 0; | Mismatches 0; | Indels 0; | Gaps 0; |
| QY | 1 | MFERRKEQDEGPIHEFLAFIAEIGSGAKKEBETCRLLIGKVCDAENHSLVIGLFP | 60 | |
| Db | 1 | MFERRKEQDEGPIHEFLAFIAEIGSGAKKEBETCRLLIGKVCDAENHSLVIGLFP | 60 | |
| QY | 61 | IDSRTPANESTLEPASAKCGFNFRWKKAMHMKINRDKDILPNITLGVQIPT | 120 | |
| Db | 61 | IDSRTPANESTLEPASAKCGFNFRWKKAMHMKINRDKDILPNITLGVQIPT | 120 | |
| QY | 121 | CFTISKVEAVLVLVTGQENRPNFRNSTGAPGIVGAGGSFLSPASRIILGLYLPQV | 180 | |

121 CFTISKVAVLVLVTQENRPNFRNSTGAPFAGIVGAGSFLSPASRIILGYLPQV 180
181 GYTSCVLSKYOPPSVLRVIAADKIOSKAVVKRIQHFQWVWVGAIAADDDGKGVKT 240
181 GYTSCVLSKYOPPSVLRVIAADKIOSKAVVKRIQHFQWVWVGAIAADDDGKGVKT 240
241 PKKMSANLCAVSETIPKYSNEKQKAVAKTSTAKVIVLYTSDIDLSFLVLEMIH 300
241 PKKMSANLCAVSETIPKYSNEKQKAVAKTSTAKVIVLYTSDIDLSFLVLEMIH 300
301 HNTDRTWIAEAWITTSALIAKPEYFPGTIGFATPRSVIPGLKEFLYVHNPKNPD 360
301 HNTDRTWIAEAWITTSALIAKPEYFPGTIGFATPRSVIPGLKEFLYVHNPKNPD 360
361 VLTIEFWQTAFCNCTWPNSSVPYNDHRVNTGKEDRLYDMSDQICTGEEKLEDKNTYLD 420
361 VLTIEFWQTAFCNCTWPNSSVPYNDHRVNTGKEDRLYDMSDQICTGEEKLEDKNTYLD 420
421 TSQIRITKQCKQAVVIAHGLDHLSCQEGQPGFSGNQOCAYIPTDFWOLMYMKEIKF 480
421 TSQIRITKQCKQAVVIAHGLDHLSCQEGQPGFSGNQOCAYIPTDFWOLMYMKEIKF 480
481 KSHEDKWILDDGDLKNGHYDVLNWLHDDGEISFVTVGRFNRSTNPFELVPTNSTIP 540
481 KSHEDKWILDDGDLKNGHYDVLNWLHDDGEISFVTVGRFNRSTNPFELVPTNSTIP 540
541 WNTSSRLPHSVCTDVCPPGTGRGFVQREPICCPDSIPCADGHVSRKPGERECEQGEDY 600
541 WNTSSRLPHSVCTDVCPPGTGRGFVQREPICCPDSIPCADGHVSRKPGERECEQGEDY 600
601 WSNQKSECVLKEVEYLAYDEALGFTLVILSVFAGFVVLAVTAVYVHRHTPLVNASDQ 660
601 WSNQKSECVLKEVEYLAYDEALGFTLVILSVFAGFVVLAVTAVYVHRHTPLVNASDQ 660
661 LGFLIQVSLIIMLSSMLFIDKPHNWSMAGQVTLALGFSCLSLGKTSFLAYRIS 720
661 LGFLIQVSLIIMLSSMLFIDKPHNWSMAGQVTLALGFSCLSLGKTSFLAYRIS 720
721 KSKTQLSMHPYRKIIIVLSVLAIGICTAYLILEPMPYKMSQNTKIILGCNEISI 780
721 KSKTQLSMHPYRKIIIVLSVLAIGICTAYLILEPMPYKMSQNTKIILGCNEISI 780
781 EFLYSMFIDAFALLCFLTFVARQLPDNYEGKCTFGMLVFFIWMSPVYVLSLTKG 840
781 EFLYSMFIDAFALLCFLTFVARQLPDNYEGKCTFGMLVFFIWMSPVYVLSLTKG 840
841 KFKMAVEIFAILASHGLGICFAPKCLIIILLRPERNTSEIVCGRVSTTDNCIQLTSFV 900
841 KFKMAVEIFAILASHGLGICFAPKCLIIILLRPERNTSEIVCGRVSTTDNCIQLTSFV 900
901 SSELNNTTVSTVLDRLVLYNCPLKQ 927
901 SSELNNTTVSTVLDRLVLYNCPLKQ 927

RESULT 2
US-10-436-715-84
; Sequence 84, Application US/10436715
; Publication No. US20040018976A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: POLYNUCLEOTIDE ENCODING NOVEL HUMAN G-PROTEIN COUPLED RECEPTORS,
; AND SPICE VARIANTS THEREOF
; FILE REFERENCE: D0262 NP
; CURRENT APPLICATION NUMBER: US/10/436,715
; CURRENT FILING DATE: 2003-05-13
; PRIOR APPLICATION NUMBER: U.S. 60/380,336
; PRIOR FILING DATE: 2002-05-14
; NUMBER OF SEQ ID NOS: 471
; SOFTWARE: Patent in version 3.2
; SEQ ID NO 84
; LENGTH: 912

; TYPE: PRT
; ORGANISM: Mus musculus
US-10-436-715-84
Query Match 80.8%; Score 3962; DB 15; Length 912;
Best Local Similarity 82.6%; Pred. No. 0;
Matches 747; Conservative 62; Mismatches 87; Indels 8; Gaps 2;
QY 17 FLAFLWAEIAGSBAKEKEERCTRLGK-----CVDAENHSLVIGLFPIDSTRIPANES 71
DB 12 FLAFLWAVLGA---QNKTEEVQCRLMKAFNLGSDYDAKNSHSLVIAGLFPHSRIPVDEA 68
QY 72 ILEPASAKCEGFNFRFWKAMIMHIKEINKRKDILPNITLGYQVQPDCTFTTISKSVAV 131
DB 69 ILEPVSPMCEGFNFRFWKAMIMHIKEINKRKDILPNITLGYQVQPDCTFTTISKAMESS 128
QY 132 LVFLTQGEENRPNFRNSTGAPFAGIVGAGSFLSPASRIILGYLPQVYTSFCVILSD 191
DB 129 LVFLTQGEENRPNFRNSTGAPFAGIVGAGSFLSPASRIILGYLPQVYTSFCVILSD 188
QY 192 KYQPSYLRVIAADKIOSKAVVKRIQHFQWVWVGAIAADDDGKGVKTPEKMSANLC 251
DB 189 KYQPSYLRVIAADKIOSKAVVKRIQHFQWVWVGAIAADDDGKGVKTPEKMSANLC 248
QY 252 VAFSETIPKYSNEKQKAVAKTSTAKVIVLYTSDIDLSFLVLEMIHNTDRTWIAT 311
DB 249 VAFSETIPKYSNEKQKAVAKTSTAKVIVLYTSDIDLSFLVLEMIHNTDRTWIAT 308
QY 312 EAWITTSALIAKPEYFPGTIGFATPRSVIPGLKEFLYVHNPKNPDNDVLTIEFWQTA 371
DB 309 EAWITTSALIAKPEYFPGTIGFATPRSVIPGLKEFLYVHNPKNPDNDVLTIEFWQTA 368
QY 372 NCTWPNSSVPYNDHRVNTGKEDRLYDMSDQICTGEEKLEDKNTYLDTSQIRITKQCK 431
DB 369 NCTWPNSSVPYNDHRVNTGKEDRLYDMSDQICTGEEKLEDKNTYLDTSQIRITKQCK 428
QY 432 QAVYIAHGLDHLSCQEGQPGFSGNQOCAYIPTDFWOLMYMKEIKFKSHEDKWILD 491
DB 429 QAVYIAHGLDHLSCQEGQPGFSGNQOCAYIPTDFWOLMYMKEIKFKSHEDKWILD 488
QY 492 DNGDLKNGHYDVLNWLHDDGEISFVTVGRFNRSTNPFELVPTNSTIFWNTSSRLPHS 551
DB 489 DNGDLKNGHYDVLNWLHDDGEISFVTVGRFNRSTNPFELVPTNSTIFWNTSSRLPHS 548
QY 552 VCTDVCPPGTGRGFVQREPICCPDSIPCADGHVSRKPGERECEQGEDYVSNQKSCVIL 611
DB 549 VCTDVCPPGTGRGFVQREPICCPDSIPCADGHVSRKPGERECEQGEDYVSNQKSCVIL 608
QY 612 KEVEYLAYDEALGFTLVILSVFAGFVVLAVTAVYVHRHTPLVNASDQGLFIQVSLII 671
DB 609 KLVEFLAYGEALGFTLVILSVFAGFVVLAVTAVYVHRHTPLVNASDQGLFIQVSLII 668
QY 672 MLLSSMLFIDKPHNWSMAGQVTLALGFSCLSLGKTSFLAYRISKTKQLTSMHP 731
DB 669 TVLSSLLFTGKPCNWSMARQITLALGFCILCLSLGKTSFLAYRISKTKQLTSMHP 728
QY 732 LYRKIIIVLSVLAIGICTAYLILEPMPYKMSQNTKIILGCNEISIEFLYSMFIDAF 791
DB 729 IPRKLIIVLCVVGGEIGVCAAYILVLEPMPKNIQNVKIIIFECNKGSEVFLCSIFGFDV 788
QY 792 FLALLCFLTFVARQLPDNYEGKCTFGMLVFFIWMSPVYVLSLTKGFKKMAVEIFAI 851
DB 789 LRALLCFLTFVARQLPDNYEGKCTFGMLVFFIWMSPVYVLSLTKGFKKMAVEIFAI 848
QY 852 LASSHGLGICFAPKCLIIILLRPERNTSEIVCGRVSTTDNCIQLTSFVSELNNTTVST 911
DB 849 LASSYGLLGLFLPKCFIILLRPERNTSEIVCGRVSTTDNCIQLTSFVSELNNTTVST 908
QY 912 VLDD 915
DB 909 VLDE 912

| | | | |
|---|-----|---|-----|
| Qy | 649 | RHTPLVNASDWOLGFLIQVSLIIMLLSSMLFIDKPHNWSCWAGQVTLALGFSICLSCLIG | 700 |
| Db | 477 | RHTPLVNASDWOLGFLIQVSLIIMLLSSMLFIDKPHNWSCWAGQVTLALGFSICLSCLIG | 536 |
| Qy | 709 | KTSSLFLAYRISKSTQLTSMHPLYRKIIIVLISVLAEIGICTAYLILBPPMYKNMESQN | 768 |
| Db | 537 | KTSSLFLAYRISKSTQLTSMHPLYRKIIIVLISVLAEIGICTAYLILBPPMYKNMESQN | 596 |
| Qy | 769 | TKIILGCNEISIEFLYSWFGIDAFLLALCFITTFVARQLPDNYEGKCIITFGMLVFFIIV | 828 |
| Db | 597 | TKIILGCNEISIEFLYSWFGIDAFLLALCFITTFVARQLPDNYEGKCIITFGMLVFFIIV | 656 |
| Qy | 829 | MSFPVYVLTSTGKPKMAVEIFAILASSHGLGCIIPAPKCLIIILLPERNTSEIVCGRVST | 888 |
| Db | 657 | MSFPVYVLTSTGKPKMAVEIFAILASSHGLGCIIPAPKCLIIILLPERNTSEIVCGRVST | 716 |
| Qy | 889 | TDNCIQLTSAFVSSELNNTTVSTVLDLDRVLVYMCPLKIQ | 927 |
| Db | 717 | TDNCIQLTSAFVSSELNNTTVSTVLDLDRVLVYMCPLKIQ | 755 |
| RESULT 4 | | | |
| US-10-003-356-5 | | | |
| ; Sequence 5, Application US/10003356 | | | |
| ; Publication No. US2002014618A1 | | | |
| ; GENERAL INFORMATION: | | | |
| ; APPLICANT: Lok, Si | | | |
| ; TITLE OF INVENTION: Human V2 Vomeroneasal Receptor | | | |
| ; FILE REFERENCE: 00-107 | | | |
| ; CURRENT APPLICATION NUMBER: US/10/003,356 | | | |
| ; CURRENT FILING DATE: 2001-11-15 | | | |
| ; PRIOR APPLICATION NUMBER: 60/252,373 | | | |
| ; PRIOR FILING DATE: 2000-11-21 | | | |
| ; NUMBER OF SEQ ID NOS: 10 | | | |
| ; SOFTWARE: FastSeq for Windows Version 4.0 | | | |
| ; SEQ ID NO 5 | | | |
| ; LENGTH: 380 | | | |
| ; TYPE: PRT | | | |
| ; ORGANISM: Homo sapiens | | | |
| US-10-003-356-5 | | | |
| Query Match 40.5%; Score 1986; DB 13; Length 380; | | | |
| Best Local Similarity 100.0%; Pred. No. 5.2e-170; | | | |
| Matches 380; Conservative 0; Mismatches 0; Indels 0; Gaps 0 | | | |
| Qy | 548 | LPHSVCTDVCPPGTGRGVFREPICCFDSIPCADGHVSRKPERCECGEDYWSNAOKS | 607 |
| Db | 1 | LPHSVCTDVCPPGTGRGVFREPICCFDSIPCADGHVSRKPERCECGEDYWSNAOKS | 60 |
| Qy | 608 | ECVLKEVYLAYDEALGFTLVLSVFGAVLAVTAVVYHRTPLVNASDWOLGFLIQV | 657 |
| Db | 61 | ECVLKEVYLAYDEALGFTLVLSVFGAVLAVTAVVYHRTPLVNASDWOLGFLIQV | 120 |
| Qy | 668 | SLIIMLLSSMLFIDKPHNWSCWAGQVTLALGFSICLSCLIGTSSFLAYRISKSTQLT | 727 |
| Db | 121 | SLIIMLLSSMLFIDKPHNWSCWAGQVTLALGFSICLSCLIGTSSFLAYRISKSTQLT | 180 |
| Qy | 728 | SMHPLYRKIIIVLISVLAEIGICTAYLILBPPMYKNMESONTKILIGCNEISIEFLYSMP | 787 |
| Db | 181 | SMHPLYRKIIIVLISVLAEIGICTAYLILBPPMYKNMESONTKILIGCNEISIEFLYSMP | 240 |
| Qy | 788 | GIDAFLLALCFITTFVARQLPDNYEGKCIITFGMLVFFIIVMSFPVYVLTSTGKPKMAVE | 847 |
| Db | 241 | GIDAFLLALCFITTFVARQLPDNYEGKCIITFGMLVFFIIVMSFPVYVLTSTGKPKMAVE | 300 |
| Qy | 848 | IFAILASSHGLGCIIPAPKCLIIILLPERNTSEIVCGRVSTTDCNCIQLTSAFVSSELNNT | 907 |
| Db | 301 | IFAILASSHGLGCIIPAPKCLIIILLPERNTSEIVCGRVSTTDCNCIQLTSAFVSSELNNT | 360 |
| Qy | 908 | TVSTVLDLDRVLVYMCPLKIQ | 927 |
| Db | 361 | TVSTVLDLDRVLVYMCPLKIQ | 380 |

RESULT 5

US-10-017-161-510
; Sequence 510, Application US/10017161
; Publication No. US20030143668A1
; GENERAL INFORMATION:
; APPLICANT: SUWA, MAKIKO
; APPLICANT: ASAI, KIYOSHI
; APPLICANT: AKIYAMA, YUTAKA
; APPLICANT: ABURATANI, HIROYUKI
; TITLE OF INVENTION: NOVEL G PROTEIN-COUPLED RECEPTORS
; FILE REFERENCE: 084335/0152
; CURRENT APPLICATION NUMBER: US/10/017.161
; CURRENT FILING DATE: 2002-12-18
; PRIOR APPLICATION NUMBER: JP 2001/246789
; PRIOR FILING DATE: 2001-06-18
; NUMBER OF SEQ ID NOS: 2430
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 510
; LENGTH: 365
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-017-161-510

Query Match 35.7%; Score 1749; DB 14; Length 365;
Best Local Similarity 99.1%; Pred. No. 1.2e-148;
Matches 341; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 584 VSRKGERECQCGEDYWSNAQSECVLKEVEYLAYDEALGFTLVILSVFGAFVVLAVTA 643
DB 22 VLRSIGERECQCGEDYWSNAQSECVLKEVEYLAYDEALGFTLVILSVFGAFVVLAVTA 81

QY 644 VYVIRHTPLVNASDWQGLFIQVSLIIMLLSSMLFIDKPHNWSCHAGQVTLALGFSCL 703
DB 82 VYVIRHTPLVNASDWQGLFIQVSLIIMLLSSMLFIDKPHNWSCHAGQVTLALGFSCL 141

QY 704 SCLLGTSSFLAYRISKSTQLTSMHPLYRKIIIVLSVLAETIGICTAYLILEPPMVYKN 763
DB 142 SCLLGTSSFLAYRISKSTQLTSMHPLYRKIIIVLSVLAETIGICTAYLILEPPMVYKN 201

QY 764 MESQNTKIILGCNEISIEFLYSMFGIDAFLLLCFTTFFVARQLPDNYEGKCTIFGMLV 823
DB 202 MESQNTKIILGCNEISIEFLYSMFGIDAFLLLCFTTFFVARQLPDNYEGKCTIFGMLV 261

QY 824 FFIWMSFVPVYLSTKGKFMAVEIFAILASSHGLGCIAPKCLIIILLRPERNTSEIVC 883
DB 262 FFIWMSFVPVYLSTKGKFMAVEIFAILASSHGLGCIAPKCLIIILLRPERNTSEIVC 321

QY 884 GRVSTTDCIQLTSAPVSSSELNNTTSTVLDRLVLYMCPKLQ 927
DB 322 GRVSTTDCIQLTSAPVSSSELNNTTSTVLDRLVLYMCPKLQ 365

RESULT 6

US-10-343-650A-52
; Sequence 52, Application US/10343650A
; Publication No. US20040067499A1
; GENERAL INFORMATION:
; APPLICANT: HAGA, TATSUYA
; TITLE OF INVENTION: NOVEL G-PROTEIN COUPLED RECEPTOR
; FILE REFERENCE: 31671-186347
; CURRENT APPLICATION NUMBER: US/10/343.650A
; CURRENT FILING DATE: 2003-07-21
; PRIOR APPLICATION NUMBER: JP 2000/237818
; PRIOR FILING DATE: 2000-08-04
; PRIOR APPLICATION NUMBER: JP 2001/34434
; PRIOR FILING DATE: 2001-02-13
; NUMBER OF SEQ ID NOS: 694
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 52
; LENGTH: 365
; TYPE: PRT

; ORGANISM: Homo sapiens
US-10-343-650A-52

Query Match 35.7%; Score 1749; DB 15; Length 365;
Best Local Similarity 99.1%; Pred. No. 1.2e-148;
Matches 341; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 584 VSRKGERECQCGEDYWSNAQSECVLKEVEYLAYDEALGFTLVILSVFGAFVVLAVTA 643
DB 22 VLRSIGERECQCGEDYWSNAQSECVLKEVEYLAYDEALGFTLVILSVFGAFVVLAVTA 81

QY 644 VYVIRHTPLVNASDWQGLFIQVSLIIMLLSSMLFIDKPHNWSCHAGQVTLALGFSCL 703
DB 82 VYVIRHTPLVNASDWQGLFIQVSLIIMLLSSMLFIDKPHNWSCHAGQVTLALGFSCL 141

QY 704 SCLLGTSSFLAYRISKSTQLTSMHPLYRKIIIVLSVLAETIGICTAYLILEPPMVYKN 763
DB 142 SCLLGTSSFLAYRISKSTQLTSMHPLYRKIIIVLSVLAETIGICTAYLILEPPMVYKN 201

QY 764 MESQNTKIILGCNEISIEFLYSMFGIDAFLLLCFTTFFVARQLPDNYEGKCTIFGMLV 823
DB 202 MESQNTKIILGCNEISIEFLYSMFGIDAFLLLCFTTFFVARQLPDNYEGKCTIFGMLV 261

QY 824 FFIWMSFVPVYLSTKGKFMAVEIFAILASSHGLGCIAPKCLIIILLRPERNTSEIVC 883
DB 262 FFIWMSFVPVYLSTKGKFMAVEIFAILASSHGLGCIAPKCLIIILLRPERNTSEIVC 321

QY 884 GRVSTTDCIQLTSAPVSSSELNNTTSTVLDRLVLYMCPKLQ 927
DB 322 GRVSTTDCIQLTSAPVSSSELNNTTSTVLDRLVLYMCPKLQ 365

RESULT 7

US-10-159-339-10
; Sequence 10, Application US/10159339
; Publication No. US20030166540A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: POLYNUCLEOTIDE ENCODING A NOVEL HUMAN G-PROTEIN COUPLED RECEPTOR,
; TITLE OF INVENTION: HGPBMY30
; FILE REFERENCE: D0169NP
; CURRENT APPLICATION NUMBER: US/10/159.339
; CURRENT FILING DATE: 2002-05-30
; PRIOR APPLICATION NUMBER: US 60/294,411
; PRIOR FILING DATE: 2001-05-30
; NUMBER OF SEQ ID NOS: 94
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 10
; LENGTH: 1085
; TYPE: PRT
; ORGANISM: BOS TAURUS
US-10-159-339-10

Query Match 34.6%; Score 1695.5; DB 14; Length 1085;
Best Local Similarity 39.3%; Pred. No. 4.5e-143;
Matches 350; Conservative 173; Mismatches 323; Indels 45; Gaps 15;

QY 53 LVIGGLPFDISRTIPANESI-LEPASACEGPNFORFRMKAMIMIKKIKDILPNI 111
DB 33 IILGGLPFIHFGVAVKQDLKSRPESVEICRYNFRGFWLQAMIFAIEBINSSPALLPNM 92

QY 112 TLGYOIFDTCTFTSKSVEAVLVLTGQ--ENRPNFRNSTGAPPA--GIVGAGGSFLSV 166
DB 93 TLGYRIFDTCTVSKALEATLSFVAQNKIDSLNLFNCSEHIEPTIAVGTGSGIST 152

QY 167 PASRILGYLPQGVGTCTCVILSDKYQFPSPYLRVIASDKIQSKAVVKRQIHFQGWVGA 226
DB 153 AVANLLGLFYIPQVSYASSRLLSNKNQFKSLRTPINDEHQATAMADIIIEFRMNWGT 212

QY 227 TAAADDYGYKVTKFKEMESANLCVAFSEITPKVYSNEKMQKAVKAVTSTAKVILYT 286
DB 213 TAAADDYGRPGIEKPREAEERDIDCFSELSIQYSDEBEKIQQVVEVIQNSTAKVIVVFS 272

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287 QY SDIDLSLFLVLEMIHNITDRTWIATEAWITSALLAKPEYFYFGTTGTFATPRSVIQLGK 346
273 Db SGPDLLEPLIKEIVRNITGRITWLASEAWASSSLIAMPEYFHVVGTTIGFGLKAGQIGFR 332
347 QY EFLYDVHFNKDPNDVLITFETQATPNC--TWNSSVPYVNDHRVNMTCGERLYDMSDQ-- 403
333 Db EFLQKVHPRKSVHNGPAKEFWFEETFNCHLQBGAKGPLVD--TFLRHGEEGARKLSNPT 390
404 QY ----LCTGEEKLELDKNYTLPTSOLRITKQCKQAVYAIAGHLDHLSRCOEQQGFGSNNQ 459
391 Db AFRPLCTGEEINSSVETPYMDYTHLRISYNNVLAVYSIAHALQDIYTCIPGRGLF--TNGS 449
460 QY CAYITPTDFWQIATMYMKEIKFKSHEDKWKVILDDNDLKNGHYDVNLNHLDD--DEGEISFVT 518
450 Db CADIKKVEAWQVLKHLNLTNSMGEQVTFDECGDLA--GNYSIINHLSPEDGSIVFKE 508
519 QY VGRNEFSTNFELVPTNSTLTFMWTESRLPHSVCTDVCPTGTRGVQREPICCPD SIP 578
509 Db VGYTNVYAKGERLFINDEKILWGFGRVFPFSCSRDCLAGTRKGIIEGPTCCFCBE 568
579 QY CADGHVSRKPGERECECGEDYWNAAOKSECVLKEVBYLAYDEALGFTLVLSVFGAFV 638
569 Db CPDGEYSDETDASACDCPDWFNENHNTSCTIAKEIFLSWTEPFGIALTLFAVLGIFLT 628
639 QY LAVTAVYVHHRTPVLNADWQLGFLIQVLSLIIMLSMLFIDKPHNWSMAGQVTLALG 698
629 Db AFVLGVPTFKRNTPIVKATNRELGYLLFLSLCCFSSSLFFIGEPQDWTCLRQPAFGIS 688
699 QY FSLCGLCLGKTSLSFLAYRISKSKTQLTSMHPLYRK-----IIVLSVLAIEIGICT 750
689 Db FVLCISCLIVKTNRVLVF---EAKIP--TSFH---RKWMLNLOFLVLFLCTFMQIVICA 741
751 QY AYLTLEPPMVYKNMESQNTKIILGNBISIEFLYSMFQIDAFLALLCFLTTFVARQLPDN 810
742 Db IWLNTAPPSSVYNEHEDEIIFITCHEGSLMALGFLIGYTCLLAAICFFPAFKSRKLPEN 801
811 QY YYEGKCTIFGMLVFFIIMWSFPVYVLTGKFKMAVEIFAILASSHGLLGCIAPAKCLII 870
802 Db FNEAKFITFSMLIFFIIVISPIYASTYGFVSAAVEVIAILAAASFGLLACIPPNKVVII 861
871 QY LLRPERNTSEIVGRSVSTTDCIQLTSAFV-----SSELNNTVST 911
862 Db LFKPSRNTIEEV--RCSTAAHAFKVAARATLRRSNVSRQRSSSLGGSTGST 910

RESULT 8
US-10-041-615-108.
; Sequence 108, Application US/10041615
; Publication No. US20040014038A1
; GENERAL INFORMATION:
; APPLICANT: Casman, Stacie J
; APPLICANT: Edinger, Shlomit R
; APPLICANT: Ellerman, Karen
; APPLICANT: Smithson, Glennda
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Padigar, Muralidhara
; TITLE OF INVENTION: No. US20040014038A1el GPCR-Like Proteins and Nucleic Acids Encodi
; FILE REFERENCE: 21402-233-061
; CURRENT APPLICATION NUMBER: US/10/041,615
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: 60/259,552
; PRIOR FILING DATE: 2001-01-03
; PRIOR APPLICATION NUMBER: 60/260,544
; PRIOR FILING DATE: 2001-01-09
; PRIOR APPLICATION NUMBER: 60/277,405
; PRIOR FILING DATE: 2001-03-20
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 108
; LENGTH: 1085
; TYPE: PRT
; ORGANISM: Bos taurus
US-10-041-615-108

```


Db 629 AFVLGVIFKFRNTPIVKATNRELSYLLFSLCCFSSSLFFIGEPODWTCLRLQPAFGIS 698
Qy 699 FSLCLSLGKTSFLAYRISKSTQLTSMHPLYRK-----IIVLSVLAEIGICT 750
Db 689 FVLCSILVKNRVLVLP---BAKIP-TSFH---RKWGLNLQFLLVFLCTFWQIVCA 741
Qy 751 AYLLBPPMYKMSQNTKIILGCNEISIEFLYSMFGIDAFLLALCLFTTFVARQLPDN 810
Db 742 IWLNTAPPSSYRNHELEDEIFITCHEGSLMALGFLIGYTCLLAAICFFPAPKSKLPEN 801
Qy 811 YBEGKCTITGMLVFFIWMFVFPVYLSTKCKPMAVEIPAILASSHGLGCIAPKCLII 870
Db 802 FNAEKPTTFMFLFFVIFWISFIPAYASTYKGFSAVEVIALAASFGLLACIFPNKYII 861
Qy 871 LLRPERNTSIVCGRVSTTDCIQLTSAFV-----SSELNNTTWTST 911
Db 862 LKPSRNTIEEV--RCSTAAHAFKVAARATLRNSVNSVRQSRSSSLGGSTGST 910

RESULT 11
US-10-159-339-9
; Sequence 9, Application US/10159339
; Publication No. US20030166540A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: POLYNUCLEOTIDE ENCODING A NOVEL HUMAN G-PROTEIN COUPLED RECEPTOR,
; FILE REFERENCE: HGPREMY30
; CURRENT APPLICATION NUMBER: US/10/159,339
; PRIOR FILING DATE: 2002-05-30
; PRIOR FILING DATE: 2001-05-30
; NUMBER OF SEQ ID NOS: 94
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
; LENGTH: 1079
; TYPE: PRT
; ORGANISM: RATTUS NORVEGICUS
US-10-159-339-9

Query Match 34.5%; Score 1690.5; DB 14; Length 1079;
Best Local Similarity 38.0%; Pred. No. 1.3e-142;
Matches 352; Conservative 181; Mismatches 332; Indels 61; Gaps 17;

Qy 18 LAFWL--AELGSAKEKEBEERTCLLLGKCVDAENHSLVIGLFPDSDRTIPANESI-LB 74
Db 11 LALAHSSAYGPDQAQKGD-----IILGLFPFHFGVAAKQDLKSR 54
Qy 75 PASAKCEGFNFQFRWKAMHMIKEINKRKDILPNITLGYQIFDTCFTISKSVKAVLVF 134
Db 55 PESVEICIRYNFRGFRWLQAMIPAIBEINGSPLPNMTLGYRIFDTCNTVSKALEATLSF 114
Qy 135 LTCQE---ENRPNFRNSTGAPPA--GIVGAGSFLSVPASRIILGLYLPOVGYTSTCVIL 189
Db 115 VAQNKIDSLNLDLDFNCSEHIPSTIAVVGATSGVSTAVANLLGLFYIPQVSYASSRLL 174
Qy 190 SDKYQFPSYLRVIASDKIOSKAVKVKIOHFGWVWGAIAADDYGVGVKTPKPKMESAN 249
Db 175 SNKNQYKSLRTIPNDEHQATAMADIEYFRMNWVGITIAADDDYGRPGIEKFRBEEARD 234
Qy 250 LCVAFSETIPKPVYSNEMQKAVKAKTSTAKVILYTSIDLSLFLVLEMIHNNITDRTWI 309
Db 235 ICIDFSELISQYSDDEIEIQVVEIQNSTAKVIVFSSGPDLEPLIKEIVRNRNITGRWL 294
Qy 310 ATEAWTSALIAKPEYFPFGTIGFATPSRVIPLKBEFLYDVHPKDPNDVLTTFEWT 369
Db 295 ASEAWASSLIAMPEYFHVVGTTIGFLKAGQIPGFRFLQKVPKPSVHNGFAKEFWEE 354
Qy 370 AFNCTWPNSS---VPYVNVDRVRNMTGKEDRLYDMSD---QLCTGEEKLELDKNTYLDTSQ 423
Db 355 TFNCHLOEGAKGFLPVDVTFVRSHEEG--GNRLNLSSTAFPLCTGDNINSVETPYMDYEH 413
Qy 424 LRITKCKQAVYAIAGHLHLRSLRQCBQGGPFGSNOQCAVIPTPDFWQLMYMKIKPKSH 483

Db 414 LRISYNYLVAVYSIAHALQDIYTCLEPGRGLF--TNGSCADIKKVEAQVQLKHLNFTNN 472
Qy 484 EDKWTLLDNDGLKNGHYDVLNWHLD--DRGEISFVTVGRFNPRSTFELVIPNTSTIFWN 542
Db 473 MGEQVTFDECGDLV--GNYSIINWHLSPEDGSIVFKEVGYNVYAKKGERLFINEEKILWS 531
Qy 543 TESSRLPHSVCTDVCPPGTGRGFVQRREPTCCFSDIPCADGHVSRKPKGERCEQCGBDYWS 602
Db 532 GFSREVPFNSCRDCAQTKGIIEGEPTCCPECVECPDGEYGETDASACDKCPDDFWS 591
Qy 603 NNAQSECVLKEVEYLAYDEALGFTLVILSVFGAFVVLATAVTVIHRHTPLVNASQWLQ 662
Db 592 NENHTSCTIAKEIEFLAWTEPFGIALTFLAVLGFITAFVLGVFKFRNTPIVKATNRELS 651
Qy 663 FLIOVSLIIMLLSSMLFIDKPHNWSMACQVTLAIGFSLCLSLGKTSLSFLAYRISK 722
Db 652 YLLLSLLCCFSSSLFFIGEPODWTCLRLQPAFGISFVLICILVKNRVLVLP---EA 708
Qy 723 KTQLTSMHPLYRK-----IIVLSVLAEIGICTAYLILBPPMYKMSQNTKIILG 774
Db 709 KIP-TSFH---RKWGLNLQFLLVFLCTFWQILICIILWLYTAPPSSYRNHELEIFIT 764
Qy 775 CNEISIEFLYSMFGIDAFLLALCLFTTFVAROLPDNYEKGKITFGMLVFFIWMFVPV 834
Db 765 CHEGSLMALGSLIGYTCLLAAICFFPAPKSKLPENFNEAKFITFSMLIFFIWMISFIDA 824
Qy 835 YLSTGKCKPMAVEIPAILASSHGLGCIAPKCLIIILRPERNTSIVCGRVSTTDCIQL 894
Db 825 YASTYKGFVSAVEVIALAASFGLLACIFPNKYIILFKPSRNTIEEV--RSSTAAHAFK 882
Qy 895 LTSAFV-----SSELNNTTWS 910
Db 883 VAARATLRPNISRKSSSLGGSTGS 908

RESULT 12
US-10-436-715-24
; Sequence 24, Application US/10436715
; Publication No. US20040018976A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: POLYNUCLEOTIDE ENCODING NOVEL HUMAN G-PROTEIN COUPLED RECEPTORS,
; FILE REFERENCE: D0262 NP
; CURRENT APPLICATION NUMBER: US/10/436,715
; PRIOR FILING DATE: 2003-05-13
; PRIOR FILING DATE: 2002-05-14
; NUMBER OF SEQ ID NOS: 471
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 24
; LENGTH: 1079
; TYPE: PRT
; ORGANISM: Rattus norvegicus
US-10-436-715-24

Query Match 34.5%; Score 1690.5; DB 15; Length 1079;
Best Local Similarity 38.0%; Pred. No. 1.3e-142;
Matches 352; Conservative 181; Mismatches 332; Indels 61; Gaps 17;

Qy 18 LAFWL--AELGSAKEKEBEERTCLLLGKCVDAENHSLVIGLFPDSDRTIPANESI-LB 74
Db 11 LALAHSSAYGPDQAQKGD-----IILGLFPFHFGVAAKQDLKSR 54
Qy 75 PASAKCEGFNFQFRWKAMHMIKEINKRKDILPNITLGYQIFDTCFTISKSVKAVLVF 134
Db 55 PESVEICIRYNFRGFRWLQAMIPAIBEINGSPLPNMTLGYRIFDTCNTVSKALEATLSF 114
Qy 135 LTCQE---ENRPNFRNSTGAPPA--GIVGAGSFLSVPASRIILGLYLPOVGYTSTCVIL 189
Db 115 VAQNKIDSLNLDLDFNCSEHIPSTIAVVGATSGVSTAVANLLGLFYIPQVSYASSRLL 174

190 SDKYQFSPYLRVIASDKIQSKAVVVKRIQHFGWVWVGAIAADDDYKGYKGVKTKFKKMEGAN 249
175 SNKQYKSFRTIPNDEHQATAMADIIEYFRWVWVGTIAADDDYGRPGIEKFEAEERD 234
250 LCVAFSEITPKVYSNEKMKQKAVKAVTSTAKVILVLTSDIDLSLFVLEMIHNITDRTWI 309
235 ICIDFSELISQYSDDEEIQQVVEIQNSTAKVIVVFSPPDLPLKEIIVRRNITGRWL 294
310 ATEAWITSALIAKPEYFPFGGTIGFATPRSVIPGLKEFLYDVHPNKPNDVLTTFEWT 369
295 ASEAWSSLIAMEYFHVVGTTIGFGLKAGQIPGFRFLQKVPKRVHNGFAKEFEE 354
370 AFNCTWPNSS---VPYVNDHRVNMVTKEDRLYDMSD---QLCTGEKLEDKNTYLDTSQ 423
355 TFNCHLOEGAKGFLPVDTFVRSHBEG-GNRLNLSSTAFRPLCTGDNINSVETPYNDYEH 413
424 LRITKQCKQAVYIAHGLDHLRSRCEGPGFNOQCAVITPFDWQLMYVYKKEIKFKSH 483
414 LRISVNVVAVYSIAHALQDIYTCLPGRGLF-TNGSCADIKKVEAQVQLKHLRLNFTNN 472
484 EDKWLIDNDGDLKNGHYDVLNWHLD-DEGEISFVTVVGRFNFRSTNFELVPTNSTIFWN 542
473 MGEQVTFDECGDLV-GNYSIINWHLSPEDGSIIVKEVGYNVYAKKGERLFINEEKILWS 531
543 TESSRLPHSVCTDVPCTGRCGFVOREPICFDSIPCADGHVSRKPGERECEOCGDYWS 602
532 GFSREVPFNSCRDCQAGTRKGIIEGPTCCFCEVCEPDGEYGETDASACDKCPDDFWS 591
603 NAKSECVLKEVEYLAYDEALGFTLVILSVFGAFVVLAVTAVYVHRHTPLVNASDWQLG 662
592 NENHTSCIAKEIEFLAWTEPFGIALTLFAVLGIFLTAFLVGFIFKFRNTPIVKATNRELS 651
663 FLIQVSLIIMLLSSMLFIDKPHNWSMAGQVTLALGFSCLSLCKTSSFLAYRISKS 722
652 YLLLSLCLCCFSSSLFFIGEPODWTCLRPQAFGIFSVLCISCLVKTNRVLLVF---EA 708
723 KTQLTSMHPLYRK-----IIVLSVLAIEGICTAYLILEPMPVYKNNESQNTKIILG 774
709 KIP-TSFH---RKWGLNLQFLVLCFTWQILICIILWTAPPSYRNHELEDEIFIT 764
775 CNEISIEFLYSMFGIDAFIALLCFLTTFFVARQLPDNYEGKCTIFGMLVFFIIMSGFVPV 834
765 CHEGSLMALGSLIGYTCLLAAICFFPAKSRKLPENFEAKFITFSMLIFFIWMISFIPA 824
835 YLSTGKFKMAVEIFAILASSHGLLCIFAPKCLIIILLPERNTSELVCGRVSTDCIQ 894
825 YASTYKGFVSAVEVIAIILAAASFGLLACIFFNKVYIILFKPSRNTIEBV--RSSTAHAFAK 882
895 LTSAFV-----SSELNNTTWS 910
883 VAARATLRPNRSRKSSSLGGSTGS 908

RESULT 14
US-10-436-715-73
; Sequence 73, Application US/10436715
; Publication No. US20040018976A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: POLYNUCLEOTIDE ENCODING NOVEL HUMAN G-PROTEIN COUPLED RECEPTORS,
; TITLE OF INVENTION: AND SPLICE VARIANTS THEREOF
; FILE REFERENCE: D0262 NP
; CURRENT APPLICATION NUMBER: US/10/436,715
; CURRENT FILING DATE: 2003-05-13
; PRIOR APPLICATION NUMBER: U.S. 60/380,336
; PRIOR FILING DATE: 2002-05-14
; NUMBER OF SEQ ID NOS: 471
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 73
; LENGTH: 1079
; TYPE: PRT
; ORGANISM: Rattus norvegicus
US-10-436-715-73

Query Match 34.5%; Score 1690.5; DB 15; Length 1079;
Best Local Similarity 38.0%; Pred. No. 1.3e-142; Indels 61; Gaps 17;
Matches 352; Conservative 181; Mismatches 332;
18 LAFW--AELGSEAKEKEERCTRLGLCKCVDABNHSILVIGLFPIDSRITPANBSI-LE 74
11 LALAWHSSAYQDQRAQKKG-----IILGGLPFIHFVGAAKDQDLKSR 54
75 PASAKCEGFNQRFRMKAMIMHMIKEINKRKDIIPNITGLYQIIFDTCITISKSVEALVF 134
55 PESVEICRYNFRGRFLQAMIFAEIENSPSLFPNMTLGYRIFDTCNTVSKALEATLSP 114
135 LTQGE---ENRPNRNSGAPPA--GIVGAGSFLSPASRILGLYLYLPQVGYTSTCVIL 189
115 VAQNKIDSLNDEFNCNCEHIPSTIAVVGATGSGVSTAVANLLGLFYFIPQVSYASSRLL 174
190 SDKYQFSPYLRVIASDKIQSKAVVVKRIQHFGWVWVGAIAADDDYKGYKGVKTKFKKMEGAN 249
175 SNKQYKSFRTIPNDEHQATAMADIIEYFRWVWVGTIAADDDYGRPGIEKFEAEERD 234
250 LCVAFSEITPKVYSNEKMKQKAVKAVTSTAKVILVLTSDIDLSLFVLEMIHNITDRTWI 309
235 ICIDFSELISQYSDDEEIQQVVEIQNSTAKVIVVFSPPDLPLKEIIVRRNITGRWL 294
310 ATEAWITSALIAKPEYFPFGGTIGFATPRSVIPGLKEFLYDVHPNKPNDVLTTFEWT 369
295 ASEAWSSLIAMEYFHVVGTTIGFGLKAGQIPGFRFLQKVPKRVHNGFAKEFEE 354
370 AFNCTWPNSS---VPYVNDHRVNMVTKEDRLYDMSD---QLCTGEKLEDKNTYLDTSQ 423
355 TFNCHLOEGAKGFLPVDTFVRSHBEG-GNRLNLSSTAFRPLCTGDNINSVETPYNDYEH 413
424 LRITKQCKQAVYIAHGLDHLRSRCEGPGFNOQCAVITPFDWQLMYVYKKEIKFKSH 483
414 LRISVNVVAVYSIAHALQDIYTCLPGRGLF-TNGSCADIKKVEAQVQLKHLRLNFTNN 472
484 EDKWLIDNDGDLKNGHYDVLNWHLD-DEGEISFVTVVGRFNFRSTNFELVPTNSTIFWN 542
473 MGEQVTFDECGDLV-GNYSIINWHLSPEDGSIIVKEVGYNVYAKKGERLFINEEKILWS 531
543 TESSRLPHSVCTDVPCTGRCGFVOREPICFDSIPCADGHVSRKPGERECEOCGDYWS 602
532 GFSREVPFNSCRDCQAGTRKGIIEGPTCCFCEVCEPDGEYGETDASACDKCPDDFWS 591
603 NAKSECVLKEVEYLAYDEALGFTLVILSVFGAFVVLAVTAVYVHRHTPLVNASDWQLG 662
592 NENHTSCIAKEIEFLAWTEPFGIALTLFAVLGIFLTAFLVGFIFKFRNTPIVKATNRELS 651
663 FLIQVSLIIMLLSSMLFIDKPHNWSMAGQVTLALGFSCLSLCKTSSFLAYRISKS 722
652 YLLLSLCLCCFSSSLFFIGEPODWTCLRPQAFGIFSVLCISCLVKTNRVLLVF---EA 708
723 KTQLTSMHPLYRK-----IIVLSVLAIEGICTAYLILEPMPVYKNNESQNTKIILG 774
709 KIP-TSFH---RKWGLNLQFLVLCFTWQILICIILWTAPPSYRNHELEDEIFIT 764
775 CNEISIEFLYSMFGIDAFIALLCFLTTFFVARQLPDNYEGKCTIFGMLVFFIIMSGFVPV 834
765 CHEGSLMALGSLIGYTCLLAAICFFPAKSRKLPENFEAKFITFSMLIFFIWMISFIPA 824
835 YLSTGKFKMAVEIFAILASSHGLLCIFAPKCLIIILLPERNTSELVCGRVSTDCIQ 894
825 YASTYKGFVSAVEVIAIILAAASFGLLACIFFNKVYIILFKPSRNTIEBV--RSSTAHAFAK 882
895 LTSAFV-----SSELNNTTWS 910
883 VAARATLRPNRSRKSSSLGGSTGS 908

RESULT 14
US-10-673-888-2
; Sequence 2, Application US/10673888


```
; Publication No. US20040082588A1
; GENERAL INFORMATION:
; APPLICANT: Evans, Ellen
; APPLICANT: Choy, Wai Nang
; APPLICANT: Mirro, Elmer
; TITLE OF INVENTION: METHODS FOR TREATING DISORDERS OF CALCIUM HOMEOSTASIS
; FILE REFERENCE: OC01600-US
; CURRENT APPLICATION NUMBER: US/10/673,888
; PRIOR FILING DATE: 2003-09-29
; PRIOR APPLICATION NUMBER: 60/414,948
; PRIOR FILING DATE: 2002-09-30
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 1079
; TYPE: PRT
; ORGANISM: Rattus norvegicus
; US-10-673-888-2

Query Match      34.5%; Score 1690.5; DB 15; Length 1079;
Best Local Similarity 38.0%; Pred. No. 1.3e-142;
Matches 352; Conservative 181; Mismatches 332; Indels 61; Gaps 17;

QY 18 LAFWM--AELGSEAKEKEERTCRLLGKVCDAENSHLVIGGLFPIDSRITIPANESI-LE 74
DB 11 LALAWHSSAYGPQRAQKGD-----IILGGLFPIHFGVAAKQDQLKSR 54
QY 75 PASAKCEGFNFQFRWMMKAMHMIKEINKRKDILPNITLGYQIYFDCTFTISKSVEAVLVF 134
DB 55 PESVECTRYNFRGRFWLQAMPAIEBHNSPSPLLPNMTLGYRFDCTNVTSKALEATLSF 114
QY 135 LTQOE---ENRPNFRNSTGAPPA--GIVGAGGSFLSVPASRIILGYLPQVGTSTCVIL 189
DB 115 VAQNKIDSLNLDKFCNCSEHIPSTIAVVGATSGVSTAVANLLGLFVPOVSYASSRLL 174
QY 190 SDKVQPSYLRVITADSKIQSKAVVKRQIHFQWVWGAIAADDDYGYGVKTFKPKWESAN 249
DB 175 SNKNQYKSFRTIPNDEHQATNADIIIEYFRNWNVTIAADDDYGRPGIEKPREAEERD 234
QY 250 LCVAFSETIPKVYSNEKQKAVAKVTSTAKVITLVTSDDLSLFLVLEHNNITDRTWI 309
DB 235 ICTDFSELISQYDEEIQVVEVIONSTAKVIVFSSGPDLEPLKEIVRRNITGRIML 294
QY 310 ATEAWITSAIIAKPEYPPYFGGTIGFATPRSVIPGLKEFLYDVHPNKPNDVLTIBFWQT 369
DB 295 ASEAWASSSLIAMPYFHVVGTTIGLQAGQIPGFRFLQKVPKSVHNGPAKEFWER 354
QY 370 AFNCTWPNSS---VPYNVDHVRNMTKEDRLYDMSD---QLCTGEEKLEDLKNYITDTSQ 423
DB 355 TFNCHLQEGAGKPLPVDTFVRSHHEG--GNRLNLSSTAFLPLCTGDNENINSVETPYNDYEH 413
QY 424 LRITKQCKQAVYAIAGHLDLHLSRCQEGQPGSGNQOCQAVIPTDFWQLYMYMKEIKPKSH 483
DB 414 LRISYNYLAVISIAHALQDIYTLCPGRGLF--TNGSCADIKKVEANQVILKHLHNFNTN 472
QY 484 EDKWLIDDDGDLKNGHYDLNHLHD--DEGEISFTVGRFNFRSTNPFELVPTNSTIFWN 542
DB 473 MGRQVTFDECGDLV--GNYSIINHLSPEDEGSIVFEKGVYNYVYAKGERLFINEEKILWS 531
QY 543 TESSRLPHSVCTDVPPTGGRGVFORBPICCPDSIPCADGHVSRKPGERECEQCGSDYWS 602
DB 532 GFSREVPFNSCRSDCOAGTRKGIIEGFTCCPCEVCPEGSEYGETDASACDKCPDFFWS 591
QY 603 NAQKSECVLKEVYLADEALGFTTILVLSVFGAVLVATVAVYIHRHTPLVNASDWQLG 662
DB 592 NENHTSCIAKEIFLAWTEPFGIALTLFVIGLIFLAFVLGVPIKFRNTPIVKATNRELS 651
QY 663 FLIQVSLIIMLLSMLPIDRPHNWSMAGQVITLALGFSCLCLGKTSLSFLAYRISKS 722
DB 652 YLLLFSLCCFSSSLFIFGEPQDWTCLRQPAFGISFVLICISILVKNRVLVLP---EA 708
QY 723 KTQLTSMHPIYRK-----IIVLSVLABIGICTAYLILEPPMYKNMESQNTKIILG 774
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709 KIP-TSFH---RKWMGLNLQFLLVFLCTFMQILICIWIYLTAPPSSYRNHELEDEIFIT 764
775 CNEISIEPLYSMFGDAPLALLCFLTTFVAROLPDNYEGKCIITFGMLVFFIIMWSFVPV 834
765 CHEGSLMALGSLIGYTCLLAAICFPFAFKSRKLPENFEAKFTTFSMILIFFIWIISFIPA 824
835 YLSTKGKFWAYEIPAILASSHGLGICIPAPKCLIIILLPERNTSIVCGRVSTTDCNCIQ 894
825 YASTYKGFVSAVEVITAILAASFGLLACIPFNKYVILPKFSRNTIEV--RSSTAHAHFK 882
895 LTSAPV-----SSELNNTTWS 910
883 VAARATLRPNITSRKRSLSGSGTGS 908

RESULT 15
US-10-125-792-2
; Sequence 2, Application US/10125792
; Publication No. US20030051269A1
; GENERAL INFORMATION:
; APPLICANT: MariCal
; APPLICANT: Harris, H. William
; APPLICANT: Nearing, Jacqueline A.
; APPLICANT: Betka, Marlies
; TITLE OF INVENTION: Polyvalent Cation-Sensing Receptor in Atlantic Salmon
; FILE REFERENCE: 2213.1006-007
; CURRENT APPLICATION NUMBER: US/10/125,792
; CURRENT FILING DATE: 2002-08-16
; PRIOR APPLICATION NUMBER: 10/121,441
; PRIOR FILING DATE: 2002-04-11
; PRIOR APPLICATION NUMBER: PCT/US01/31704
; PRIOR FILING DATE: 2001-10-11
; PRIOR APPLICATION NUMBER: 60/240,392
; PRIOR FILING DATE: 2000-10-12
; PRIOR APPLICATION NUMBER: 60/240,003
; PRIOR FILING DATE: 2000-10-12
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 1027
; TYPE: PRT
; ORGANISM: Squalus acanthias
; US-10-125-792-2

Query Match      34.4%; Score 1688.5; DB 14; Length 1027;
Best Local Similarity 38.6%; Pred. No. 1.8e-142;
Matches 346; Conservative 176; Mismatches 323; Indels 51; Gaps 14;

QY 53 LVIGGLFPIDSRITIPANESI-LEPASAKCEGFNFQFRWMMKAMHMIKEINKRKDILPNI 111
DB 36 IILGGLFPIHFGVAAKQDQLKSRPEATKIRYNFRGRFWLQAMPAIEBHNSMTPLPNI 95
QY 112 TLGYQIPDCTFTISKSVEAVLVPLTQOE---ENRPNFRNSTGAPPA--GIVGAGGSFLSV 166
DB 96 TLGYRIFDCTNVTSKALEATLSFVAQNKIDSLNLDKFCNCSDHIPSTIAVVGATSGSIST 155
QY 167 PASRIILGYLPQVGTSTCVILSDKYQPSYLRVITADSKIQSKAVVKRQIHFQWVWGA 236
DB 156 AVANLLGLFYIQVSYASSRLLSNKNYKAFRTIPNDEQQATAMAEIIEHFQWNVGT 215
QY 227 IAADDDYGYGVKTFKPKWESANLVCAPSETIPKVYSNEKQKAVAKVTSTAKVITLVLT 286
DB 216 LAADDDYGRPGIDKFREEAVKRDICIDPSEMISQYVTKQLEFIADVIQNSSAKVIVVS 275
QY 287 SDIDLFLVLEMHNNITDRTWIATEAMITSAIIAKPEYFPFGGTIGTIGTATPRSVIPGLK 346
DB 276 NGPDLEPLIQEIVRENTIDRIWLSEAWASSSLIAKPEYFVVGTTIGFALRAGRIPGN 335
QY 347 EFLYDVHPNKPNDVLTITFEWQTAFNCTW-----PNSSVYPYNDHVRNMTKEDRLY 398
DB 336 KFLKEVHPERSDDNGFVKEFBEETFCYFTEKTLTQLKNSKVP---SHGPAAGDGSKAG 392
QY 399 DMSDQL-----CTGEEKLEDLKNYITDTSQIRITKQKQAVYAIAGHLDLHLSRCQEGQ 454
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Thu Feb 17 09:11:18 2005

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|-----|----|-----------------|--|-----|
| 393 | Db | NSRRTALRHPCTG | ENITSVETPYLDYTHLRISYNYVAVYSAHALODIHSCKPGTGIF | 452 |
| 455 | Qy | GSNOQCAVITPFD | FWQLMYWYKKEIKFKSHEDKWILDDNDGLKNGHYDVLNWHLLDDEGE- | 513 |
| 453 | Db | -ANGSCADIKKEV | AWQVLNHLHLKFTNSMGEQVDFDQDDLK-GNYLIINWQLSAEDBS | 510 |
| 514 | Qy | ISFVTVGRFNPRSTN | FLVPTNTSTIFWNTSESRLEPHSVCTDPCPGTGRGVQREPICC | 573 |
| 511 | Db | VLFHEVGYNAYAKPS | DRNLNINEKKILWGSFGSKVWPFNSCRSDCPVGRKGIIEGPTCC | 570 |
| 574 | Qy | FDSPTCACHVSRKPG | BERBCEQGEDYWSNAQSKSECVLXEVEYLAYDEALGFTLVILSVF | 633 |
| 571 | Db | FEWCACAREGFS | DENDASACTKCFDWFMSNEHTSCIAKEIYLSWTEPFGIALTIFAVL | 630 |
| 634 | Qy | GAFVVLAVTVYVTH | RTHPLVNASDWOLGFLIQVSLIIMLLSSMLFIDKPHNWSQWAGV | 693 |
| 631 | Db | GILITSFVLGFIK | FRWTPVKNATNRELSVLLIFSLICCFSSSLFIFIGEPDWTCELKQP | 690 |
| 694 | Qy | TLALGFSCLSLGKT | SSIFLAYRISKSTQJTSMPHYRK-----IIVLSVLAIE | 745 |
| 691 | Db | AFGISFVLCISGIL | VKNTRVLLVE-AKIPTS-----LHRKWVGLNQLFLVFLCILVQ | 743 |
| 746 | Qy | IGICTAYLILBPP | WVYKNMESONTKIILGCNEISIEFLYSMGCIDAFALLCFLITTFVAR | 805 |
| 744 | Db | IWTCITIMLYTAPP | SYRNHELEDEVIPTCDGSLMALGFLIGYTCCLLAAICFFFAFKSR | 803 |
| 806 | Qy | QLPDNYEKGKICIT | FGMLVFFIIMWSFPVYLSYTKGFKQMAVEIFAILASSHGLGCIAP | 865 |
| 804 | Db | KLPENFNEAKPIT | FSMLIFFIIVLSIFPIAVSYVYKFSVAVEVIALASSFGLLGCIYFN | 863 |
| 866 | Qy | KCLIIILLPERNT | SEIVGRVSTTDCIQJTSAPV-----SSELNNTVTST | 911 |
| 864 | Db | KCVIILFKPCN | TTEEV--RCSTAAHAFKVAABATLRRSAASRRSSSLCGSTISS | 917 |

Search completed: February 16, 2005, 16:41:47
Job time : 140.466 secs